

MFS-31565-1 (NASA Case No.)

Declaration, Power of Attorney and Petition - Original Application

As a below named inventor, I hereby declare that: My residence, mailing address and citizenship, are stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Phase Modulator with Terahertz Optica	l Bandwidth Forme	d by Multi-Layered Dielectric St	tack
the specification of which is attached	hereto, was file	ed on <i>(Date)</i>	1
as Application Serial No.	and was am	ended (Date)	•
I have reviewed and understand the content referred to above.	s of the above identific	ed specification, including the claims,	, as amended by any amendment
I acknowledge the duty to disclose to the Padefined in 37 CFR §1.56.	tent and Trademark C	office all information which is known t	o me to be material to patentability a
I hereby claim the benefit under 35 U.S.C. § the claims of this application is not discloser §112, I acknowledge the duty to disclose to defined in 37 CFR §1.56 which became availate of this application:	d in the prior United St the Patent and Trader	ates application in the manner provid nark Office all information known to r	led by the first paragraph of 35 U.S.C
(Serial No.) (Filing Date)	, the status of which is	patented, pending,	abandoned.
I hereby claim priority benefits under Title 35,	United States Code §	119(e) of any United States Provision	nal Applications listed below:
	_, the status of which		
(Provisional Serial No.) (Filing Date)	_,	o ponume.	
POWER OF ATTORNEY: I hereby appoint t and Trademark Office connected therewith: Registered practitioner(s) at Custon			o transact all business in the Patent
Registered practitioner(s) listed be	low:		
	•••		
James J. McGroary	38,960	Jerry L. Seemann	33,454
(Name)	(Reg. No.)	(Name)	(Reg. No.)
Gary G. Borda (Name)	35,455	John G. Mannix	27,254
Alan J. Kennedy	(Reg. No.)	(Name)	(Reg. No.)
Alan J. Kennedy (Name)	28,625 (Reg. No.)	(Name)	/Don Man
, ,	(rieg. 140.)	, ,	(Reg. No.)
ADDRESS ALL CORRESPONDENCE TO:		DIRECT TELEPHONE CALLS TO	D:
Customer Number, OR		Telephone (Complete number to be dialed from USPTO):	
Correspondence Address listed bel	low:	(256) 544-0013	
Name: James J. McGroary			
Address: NASA/Marshall Space Flight	Center		
LS01/Office of Chief Counsel			
Marshall Space Flight Center,	AL 35812		

CERTIFICATE OF MAILING

2-6-01 Si	gnature: Jwa	osited with the United States Postal Service of Patents and Trademarks, Washington R. Aughes	MFS-31565- (NASA Case N
press Mail El Further, as a name		nment of the United States of America, as re	presented by the Administrator of
	cs and Space Administration has		the invention set forth
		secute this application and to receive the pater	
Wherefore, I pray t	hat Letters Patent be granted to n	ne for this invention or discovery described an	d claimed in the foregoing speci
		oing specification, claims, power of attorney a	
			,
I hereby declare the	at all statements made herein of n	ny own knowledge are true and that all statem	nents made on information and b
believed to be true;	and further that these statements	s were made with the knowledge that willful fa	lse statements and the like so m
punishable by fine	or imprisonment, or both, under 1	8 U.S.C. §1001; and that such willful false sta	tements may jeopardize the vali
application or any p	patent issuing thereon.		
	LACT	Isipot	
FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
	Keys	Andrew STATE OR FOREIGN COUNTRY	S. COUNTRY OF CITIZENSHIP
RESIDENCE AND CITIZENSHIP	Harvest		i
	STREET NO. AND NAME	Alabama CITY AND STATE (OR COUNTRY)	USA ZIP CODE
MAILING ADDRESS	210 Clutts Road	Harvest, AL	35749
SIGNATURE /	1 1 1/	That vest, AL	DATE /
	Marin A. Tsen	u	5 June 2001
	LAST	FIRST	
FULL NAME OF INVENTOR	V		MIDDLE OR INITIAL
****	Fork CITY	Richard STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
RESIDENCE AND CITIZENSHIP	Madison	Alabama	USA
MAILING	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
ADDRESS	106 Canterbury Çircle	Madison, AL	35758
SIGNATURE	11/1/1/1/	-///	DATE
	Vedens by	York	June 05, 200
FULL NAME	LAST	FIRST	MIDDLE OR INITIAL
OF INVENTOR			WINDSEL OF THE FIRE
RESIDENCE AND	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
CITIZENSHIP			USA
MAILING	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE
ADDRESS			
SIGNATURE			DATE
FULL NAME OF INVENTOR	LAST	FIRST	MIDDLE OR INITIAL
RESIDENCE AND CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	OTDEET NO. AND MAKE		USA
MAILING ADDRESS	STREET NO. AND NAME	CITY AND STATE (OR COUNTRY)	ZIP CODE

RECORDATION COVER SHEET FOR PATENTS

Commissioner of Patents and Trademarks Washington, D.C. 20231

Attention: Assignment Division

Please record the attached original documents or copy thereof.

(1) Conveying Party(ies): Andrew S. Keys

(2) Receiving Party(ies): National Aeronautics and Space Administration

Washington, D.C. 20546

(3)Nature of Conveyance: Assignment

Execution Date: June 5, 2001

Application Number: (4)

NASA Case No.: MFS-31565-1

Application Title:

Phase Modulator with Terahertz Optical Bandwidth Formed by

Multi-Layered Dielectric Stack

This document is being filed together with a new patent application for letters patent. The execution date of the application is: June 5, 2001

Name and address of party to whom correspondence concerning document should be (5) mailed.

> National Aeronautics and Space Administration Attn: LS01/James J. McGroary Marshall Space Flight Center, AL 35812

(6) Total number of applications involved: 1(One)

(7) Total fee (37 CFR 3.41): \$40.00. Authorized to be charged to deposit account.

(8)Deposit account number: 14-0116

(9)To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. This cover sheet consists of one page.

Respectfully,

James J. McGroary Registration No. 38,960

Enclosure(s):

NASA FORM 430

ADDITIONAL COPY OF THIS FORM

Express Mail EK828574598US

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: Commission of Patents and Trademarks, Washington, D.C. 20231 on the date of signature below.

6-01 Signature: